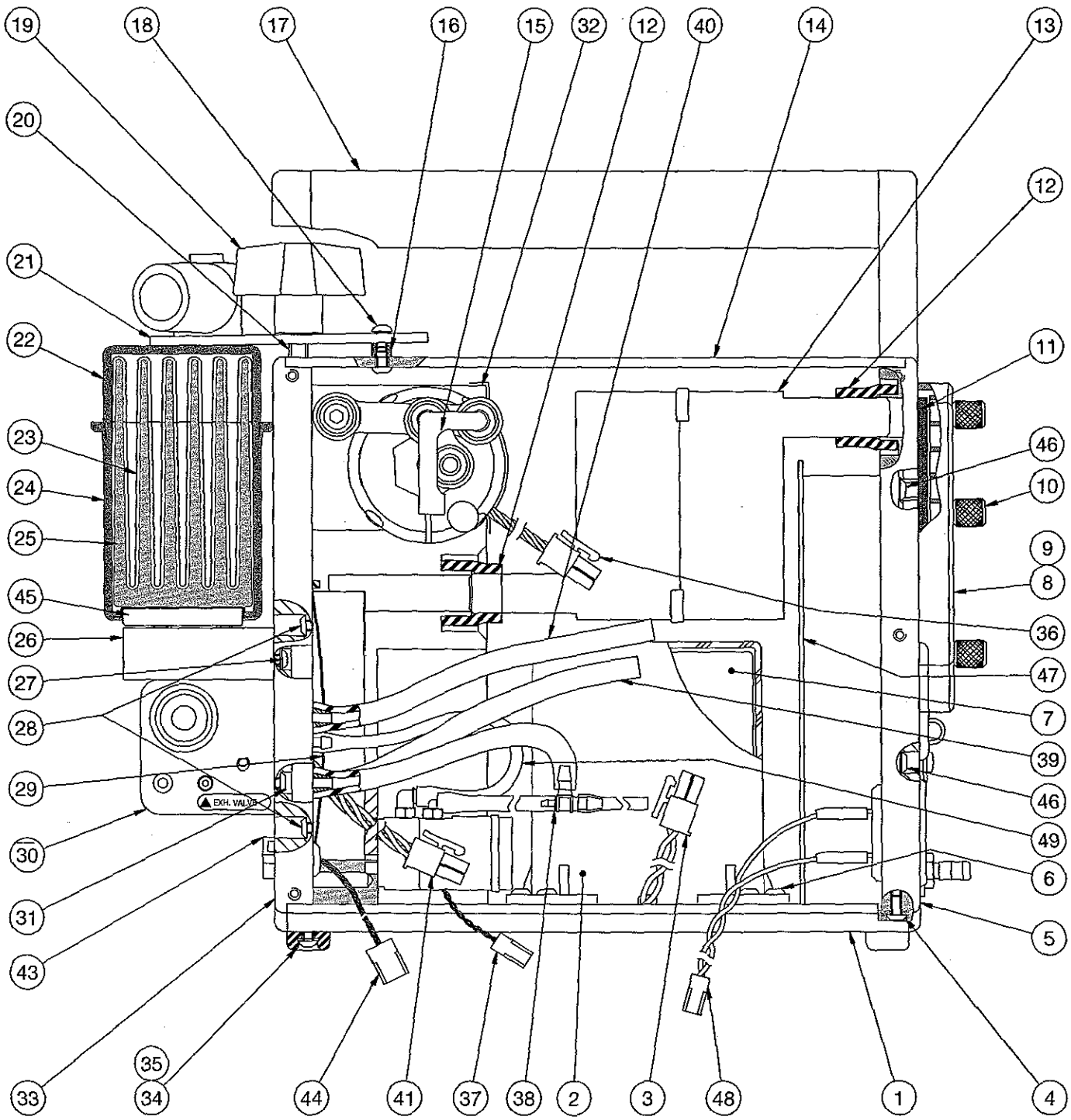
9. DIAGRAMS AND PARTS LIST

Figure 9-1, Internal View
Figure 9-2, Final Assembly, Front View HT50-H
Figure 9-3, Final Assembly, Front View HT50-T, HT50-H1
Figure 9-4, Main Board with Mounting Hardware
Figure 9-5, Main Board Tubing Connection, Left Side
Figure 9-6, Right Side Case
Figure 9-7, Front Panel, Side View
Figure 9-8, Pneumatic Schematic
Figure 9-9, Electrical System Overview
Drawing Reference List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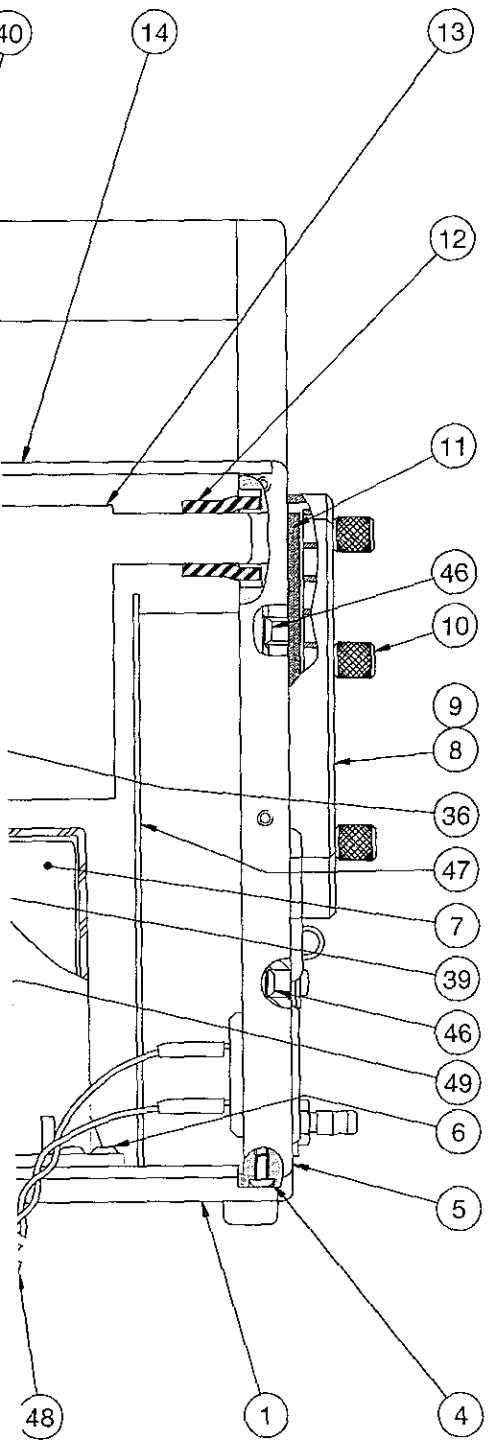
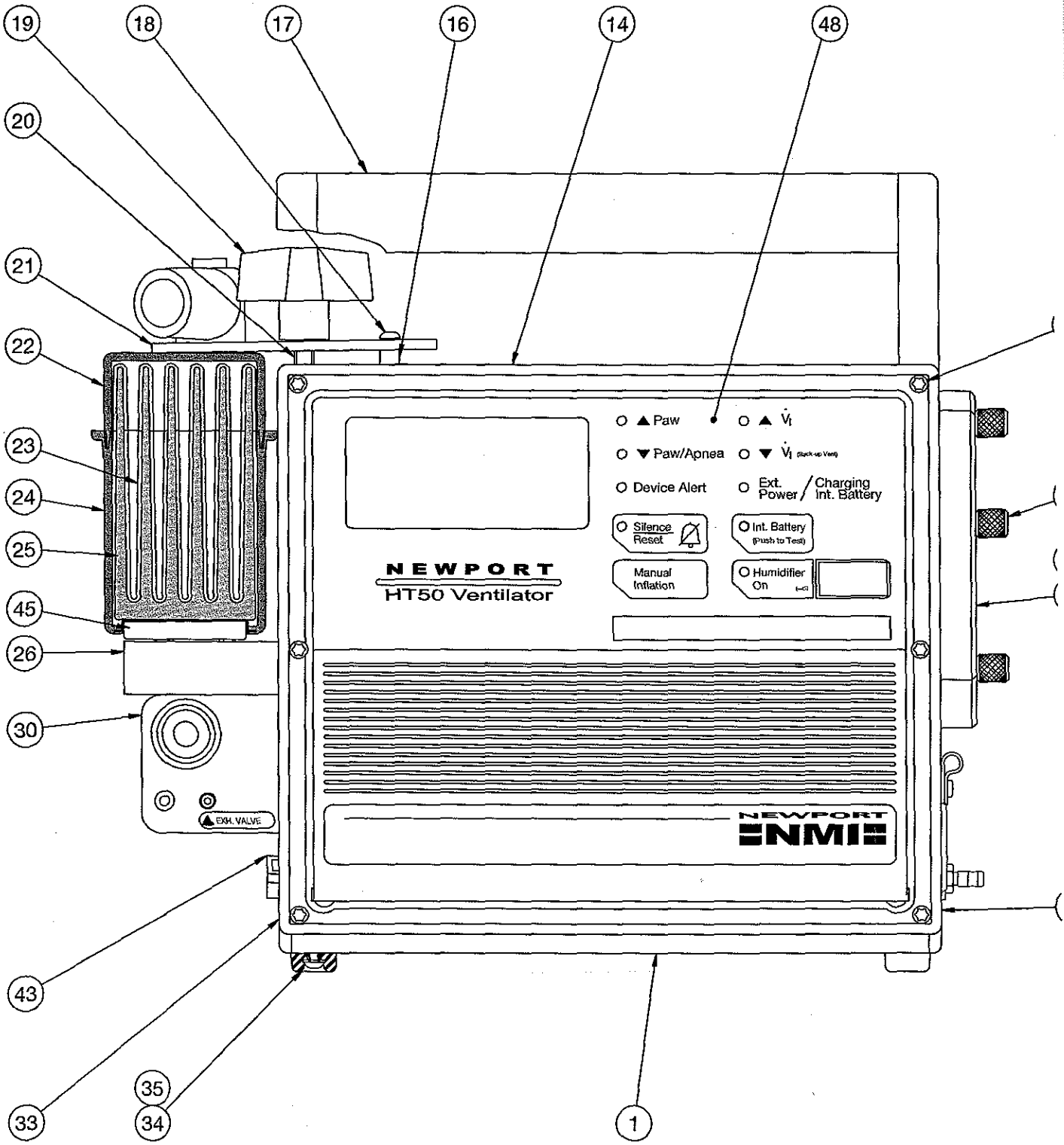


No.	PART NUMBER	QTY.	DESCRIPTION AND REFERENCE DESIGNATION
49	V11-28100-06	1	SILICONE TUBE 2x4 (OF PART 3)
48	G29-00012-29	1	CONNECTOR 2 PINS 6471 CIDEV (OF ALARM ASSY.)
47	V11-31000-65	1	POWER SUPPLY ASSY.
46	G23-00001-23	6	TORX SCREW HD. 6-32 UNC x 1/4" LG.
45	V12-12100-03	1	HEAT ELEMENT HOUSING
44	G29-00013-29	1	CONNECTOR 3 PINS 6471 CIDEV
43	G29-00031-29	1	T. PROBE CONNECTOR (FEMALE)
41	G29-00004-29	1	MINI-FIT JR. CONNECTOR 4 PINS
40	V11-28000-06	1	SILICONE TUBE 3 x 7 160mm
39	V11-28000-06	1	SILICONE TUBE 3 x 7 160mm
38	V11-26000-60	1	SILICONE TUBE ASSY.
37	G29-00012-29	1	CONNECTOR 2 PINS 6471 CIDEV (OF SOLENOID ASSY.)
36	G29-00008-29	1	MINI-FIT JR. CONNECTOR 8 PINS
35	G23-00001-23	4	TORX SCREW HD. 6-32 UNC x 1/4" LG.
34	G01-00001-67	4	FOOT
33	V11-23100-03	1	CASE SIDE PLATE LEFT
32	V11-21000-60	1	MANIFOLD ASSY.
31	G23-00001-29	2	TORX SCREW HD. 6-32 UNC x 1/4" LG.
30	V11-24000-63	1	OUTLET FITTING ASSY.
29	V11-21700-06	1	MANIFOLD DIAPHRAGM
28	G23-00001-29	4	TORX SCREW HD. 6-32 UNC x 1/4" LG.
27	G23-00006-23	2	TORX K35 x 10 FOR PLASTIC
26	V12-10000-60	1	HEATER ASSY.
25	V12-33000-03	1	HEAT SINK
24	V12-31000-68	1	HUMIDIFIER BOTTLE-LOWER ASSY.
23	V12-34000-20	1	ABSORBENT PAPER
22	V12-32000-18	1	HUMIDIFIER BOTTLE-UPPER
21	V12-21000-03	1	HUMIDIFIER BRACKET
20	G23-00021-23	1	ST. ST. SOCKET CAP SCREW 1/4"
19	V12-22000-03	1	BAR KNOB
18	G23-00001-29	2	TORX SCREW HD. 6-32 UNC x 1/4" LG.
17	V11-22000-67	1	HANDLE ASSY.
16	V12-40000-03	1	HUMIDIFIER STANDOFF
15	V11-21100-63	1	CRANK MECHANISM LEFT ASSY.
14	V11-41000-03	1	UPPER CASE COVER
13	V11-33000-67	1	MUFFLER ASSY.
12	V11-32000-06	2	SILICONE TUBE 1/2"x3/4" 18mm
11	V11-35300-20	1	AIR INLET FILTER
10	V11-35100-03	3	FILTER THUMB SCREW
9	V11-36000-26	1	O-RING 50 DUROMETER SILICONE
8	V11-35200-07	1	FILTER COVER
7	G19-00001-29	1	BATTERY
6	G23-00001-29	10	TORX SCREW HD. 6-32 UNC x 1/4" LG.
5	V11-38100-03	1	CASE SIDE PLATE RIGHT
4	G23-00001-29	6	TORX SCREW HD. 6-32 UNC x 1/4" LG.
3	G29-00002-29	1	Mini-Fit Jr. CONNECTION 2 PINS
2	V11-14000-07	1	BATTERY CASE COVER
1	V11-12100-03	1	LOWER CASE COVER

Figure 9-1
Internal View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Paw/Apnea
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Ext. Power / Charging Int. Battery
Silence Reset
Int. Battery
(Push to Test)
Manual Inflation
Humidifier On
NEWPORT
HT50 Ventilator
EXH. VALVE
NEWPORT
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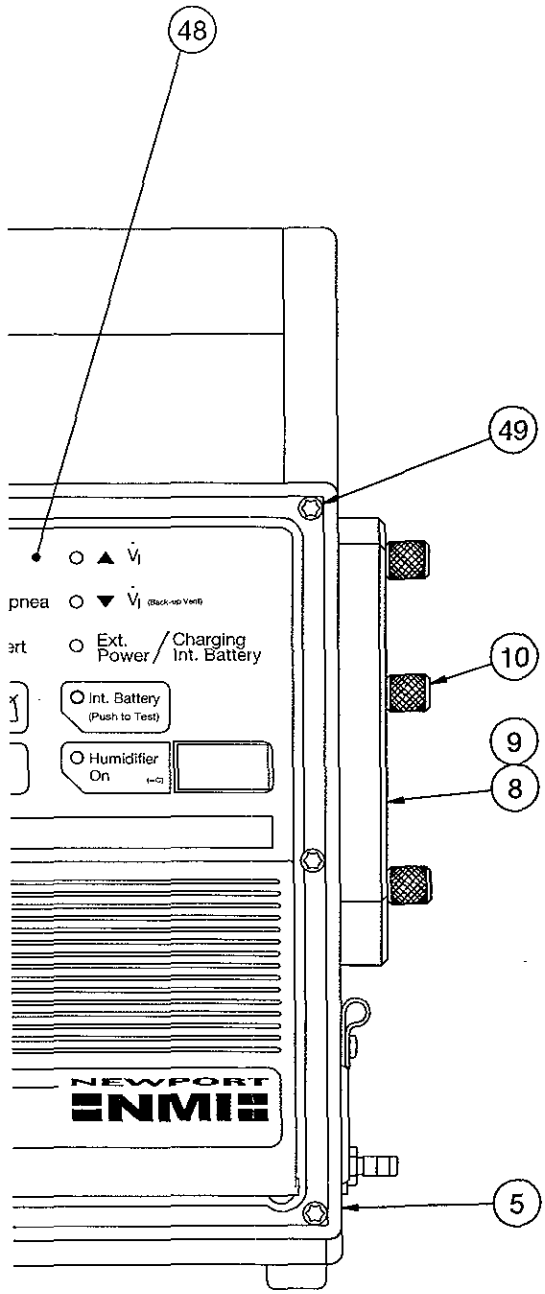


49	G23-00031-23	6	SOCKET HEAD CAP SCREW 6-32 x 1/2"
48	V11-70000-60	1	CONTROL PANEL ASSY.
45	V12-12100-03	1	HEAT ELEMENT HOUSING
43	G29-00031-29	1	T. PROBE CONNECTOR (FEMALE)
35	G23-00001-29	4	TORX SCREW HD. 6-32 UNC x 1/4" LG.
34	G01-00001-67	4	FOOT
33	V11-25100-03	1	CASE SIDE PLATE LEFT
30	V11-24000-63	1	OUTLET FITTING ASSY.
26	V12-10000-60	1	HEATER ASSY.
25	V12-33000-03	1	HEAT SINK
24	V12-31000-18	1	HUMIDIFIER BOTTLE-LOWER ASSY.
23	V12-34000-23	1	ABSORBENT PAPER
22	V12-32000-18	1	HUMIDIFIER BOTTLE-UPPER
21	V12-21000-03	1	HUMIDIFIER BRACKET
20	G23-00021-23	1	ST. ST. SOCKET CAP SCREW 1/4"x1 1/4"
19	V12-22000-03	1	BAR KNOB
18	G23-00001-29	2	TORX SCREW HD. 6-32 UNC x 1/4" LG.
17	V11-22000-67	1	HANDLE ASSY.
16	V12-40000-03	1	HUMIDIFIER STANDOFF
14	V11-41000-03	1	UPPER CASE COVER
10	V11-35100-03	3	FILTER THUMB SCREW
9	V11-36000-26	1	O-RING 50 DUROMETER SILICONE
8	V11-35200-07	1	FILTER COVER
5	V11-38100-03	1	CASE SIDE PLATE RIGHT
1	V11-12100-03	1	LOWER CASE COVER
No.	PART NUMBER	QTY.	DESCRIPTION AND REFERENCE DESIGNATION

Figure 9-2
Final Assembly
Front View HT50-H

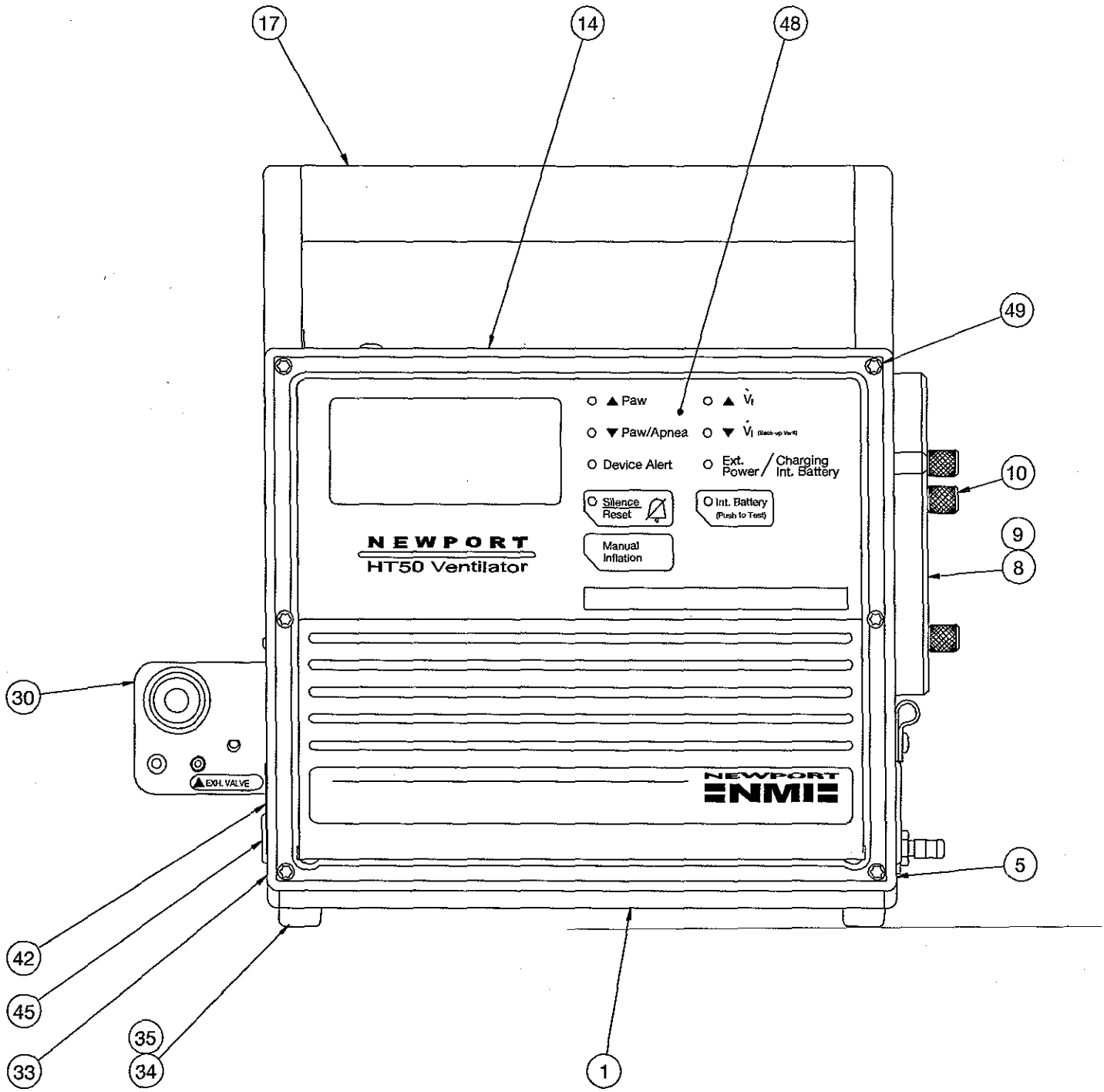


Figure 9-3
Final Assembly
Front View HT50-T, HT50-H1

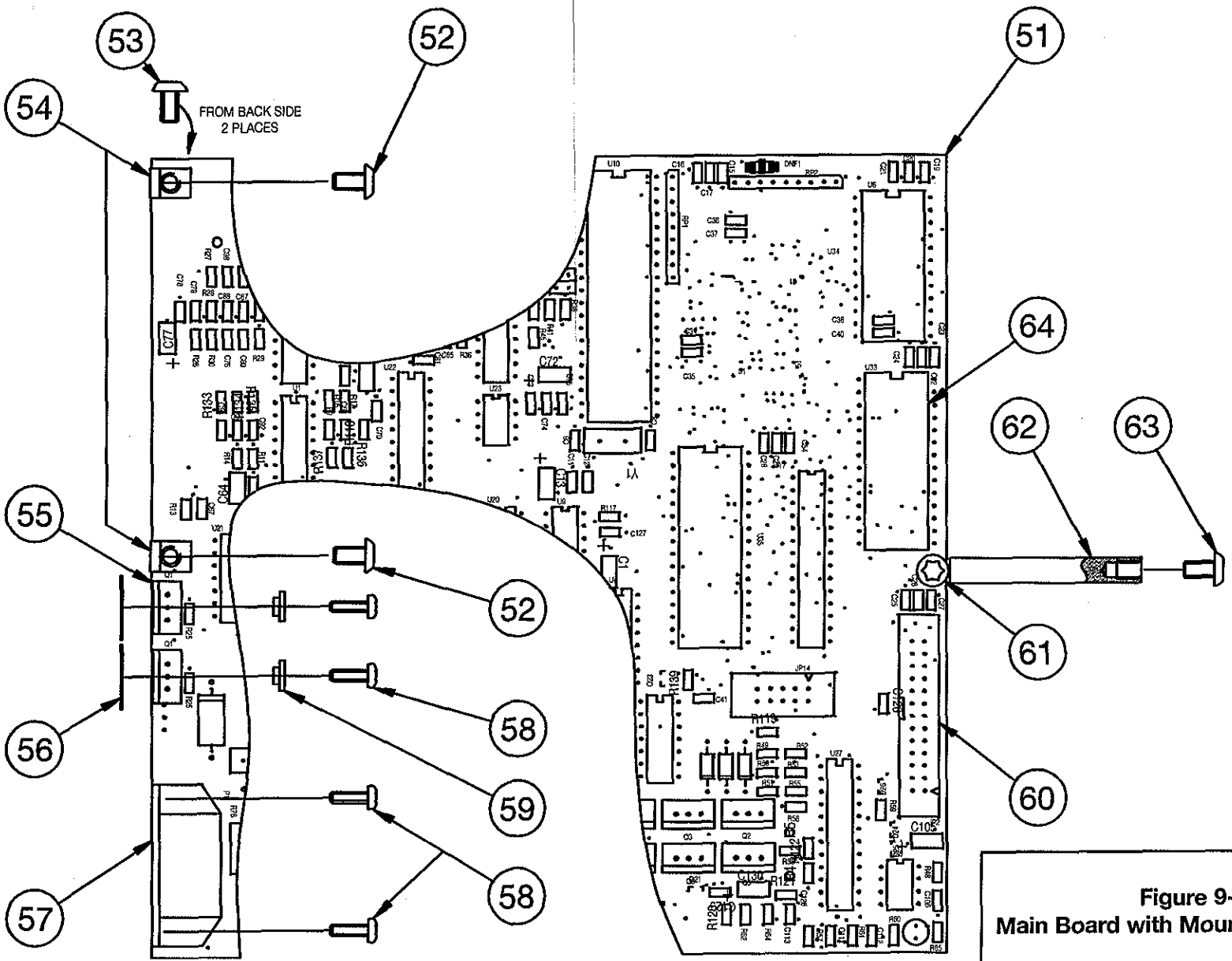


Figure 9-4
Main Board with Mounting Hardware

SERHT50 B0601

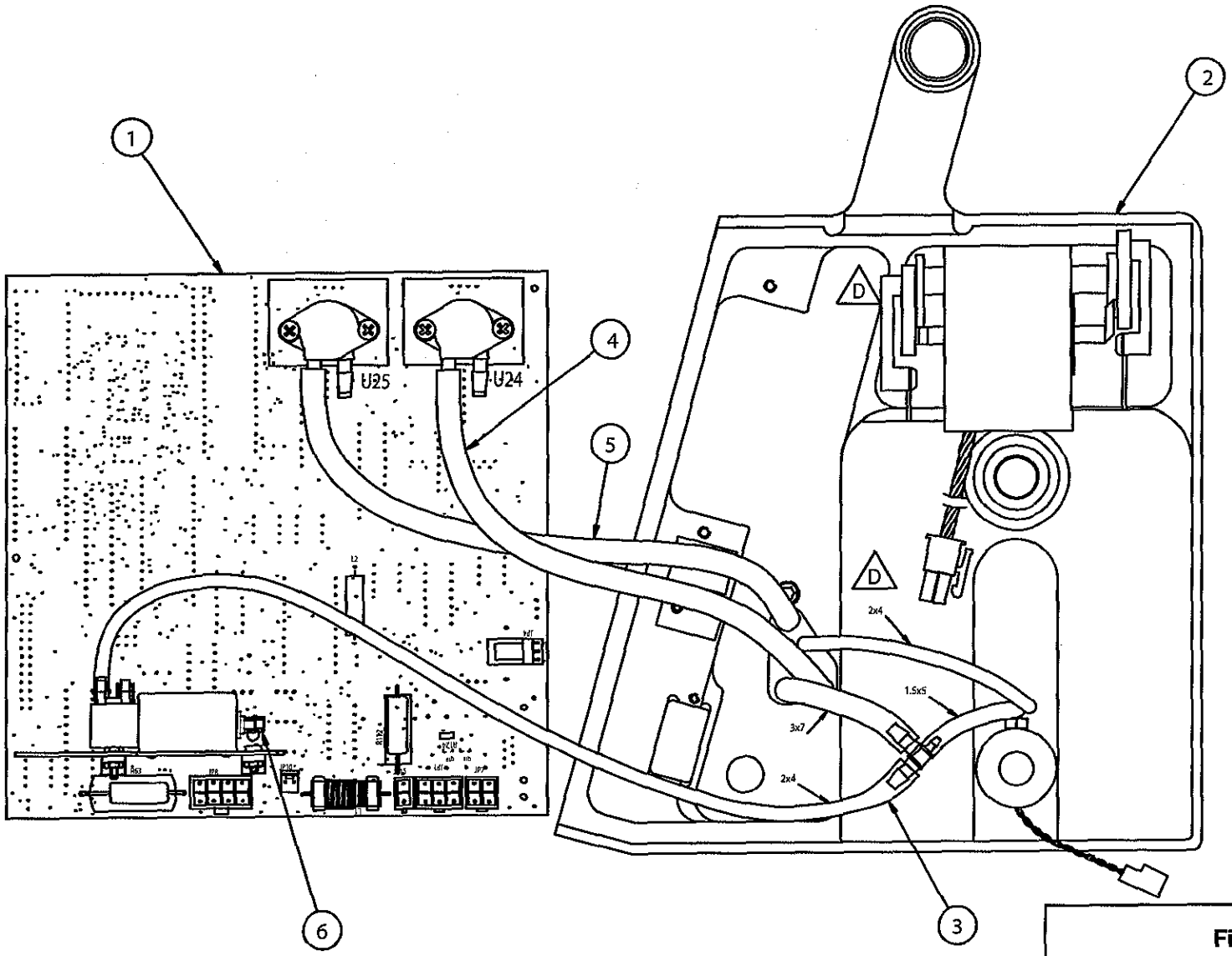
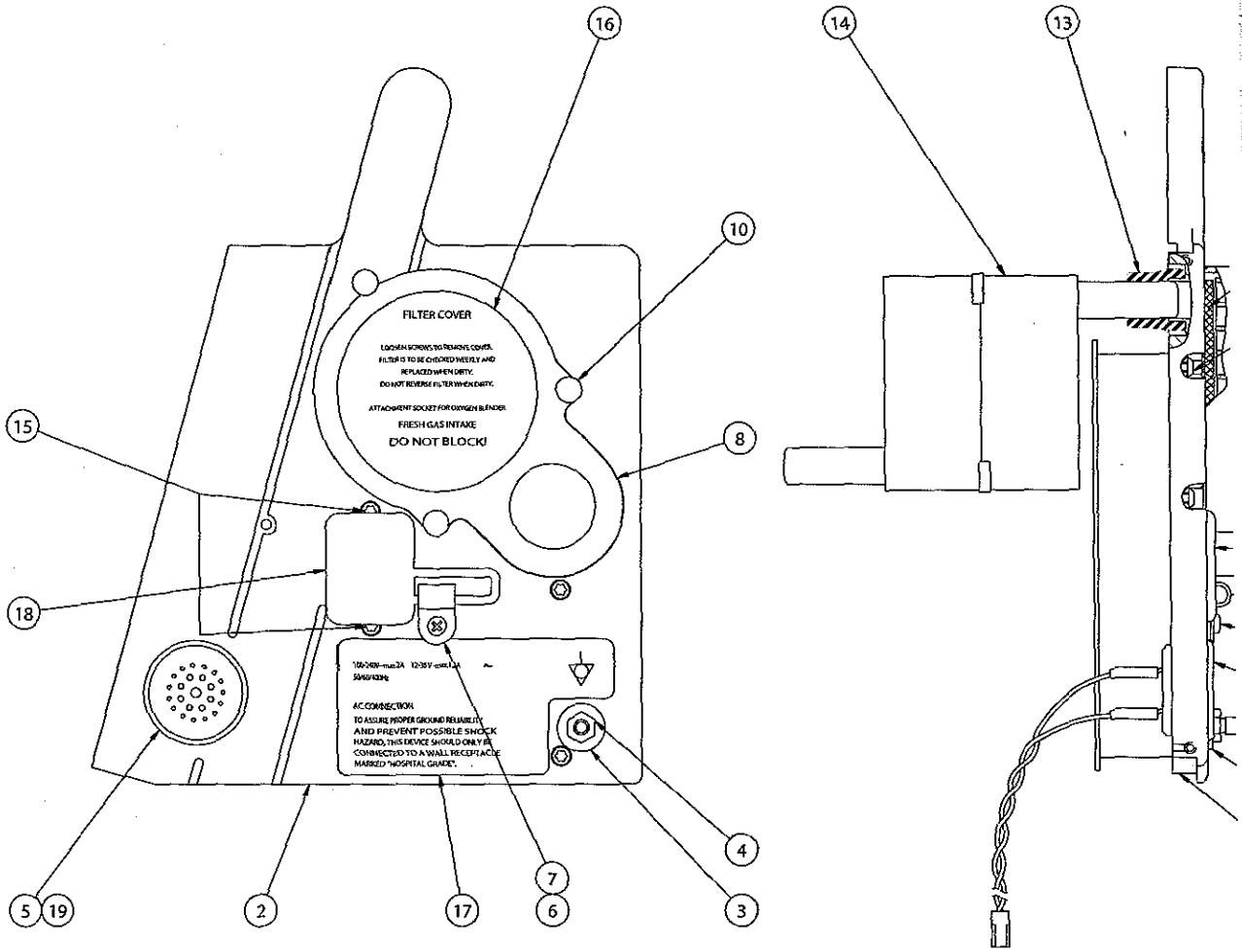


Figure 9-5
Main Board Tubing Connection, Left Side

SERHT50 B0601



No.	PART NUMBER	QTY.	DESCRIPTION AND REFERENCE DESIGNATION
20	V11-38500-06	1	GASKET-POWER
19		1	O-RING 77 DUROMETER SILICONE
18	V11-34300-06	1	POWER CORD PORT PLUG (FOR HT50-T ONLY)
17	V11-38200-18	1	RIGHT SIDE LABEL
16	V11-35400-18	1	FILTER COVER LABEL
15	G23-00001-23	2	TORX HD. SCREW 6-32 UNC x 5/6" LG.
14	V11-33000-67	1	MUFFLER ASSY.
13	V11-32000-06	1	SILICONE TUBE 1/2"x3/4" 20mm
12	G23-00002-23	4	TORX HD. SCREW 6-32 UNC x 1/4" LG.
11	V11-35300-20	1	AIR INLET FILTER
10	V11-35100-03	3	FILTER THUMB
9	V11-36000-26	1	O-RING 50 DUROMETER SILICONE
8	V11-35200-07	1	FILTER COVER
7	G27-00002-27	1	FIXED DIA. CABLE CLAMP 1/4"
6	G23-00013-23	1	PHIL. HEAD SCREW 8-32 x 1/4"
5	V11-37000-69	1	ALARM ASSY.
4	V11-38400-03	1	EQUIPOTENTIAL CONNECTOR (CUT)
3	G13-00002-23	1	EQUIPOTENTIAL COLOR CODE WASHER FR-POAG-S
2	V11-38100-03	1	CASE SIDE PLATE RIGHT
1	V11-31000-65	1	POWER SUPPLY ASSY.

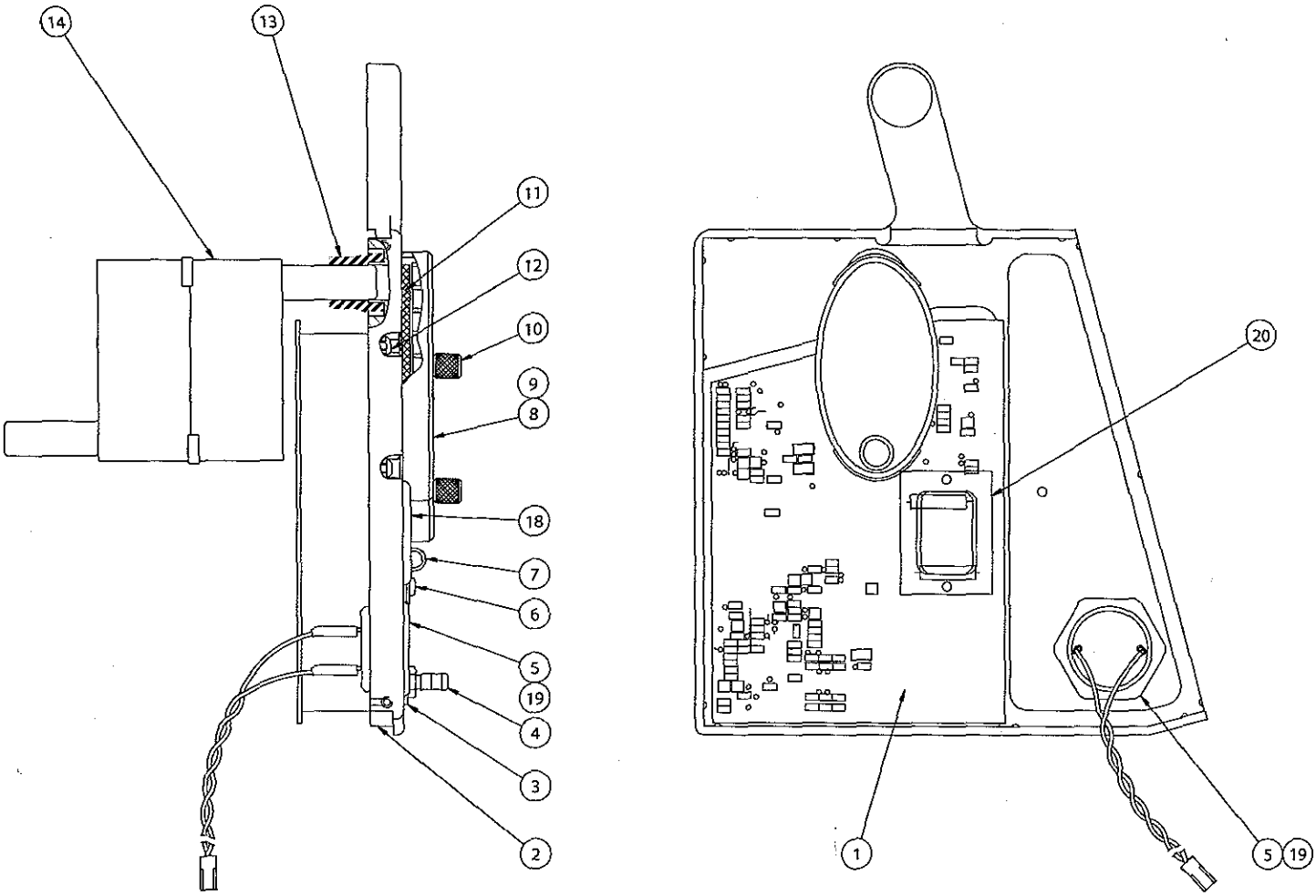
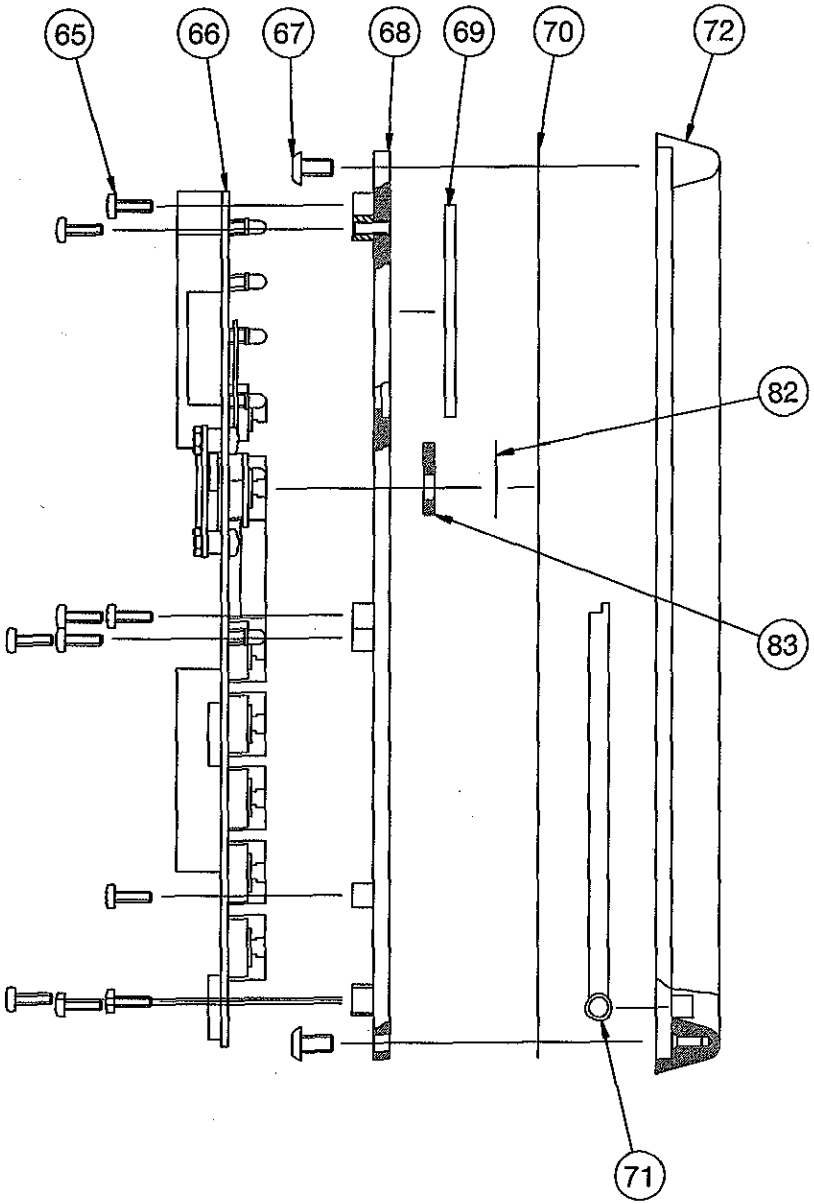
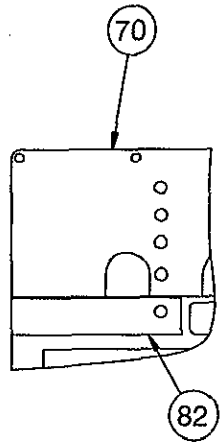


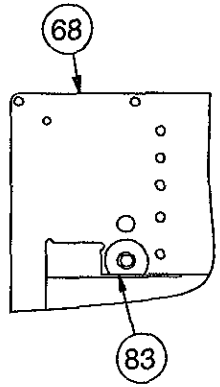
Figure 9-6
Right Side Case

SERHT50 B0601





STEP A



STEP B

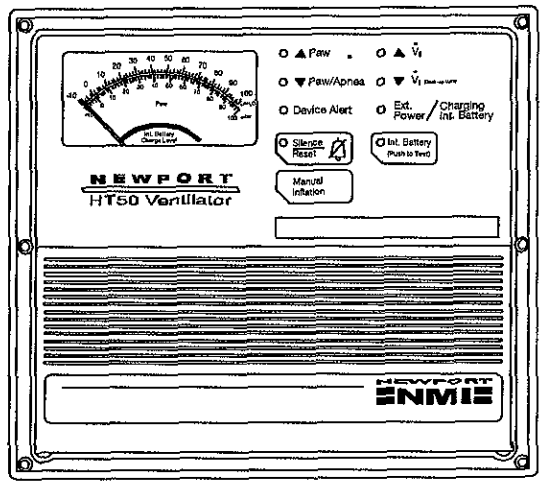


Figure 9-7
Front Panel, Side View

SERHT50 B0601

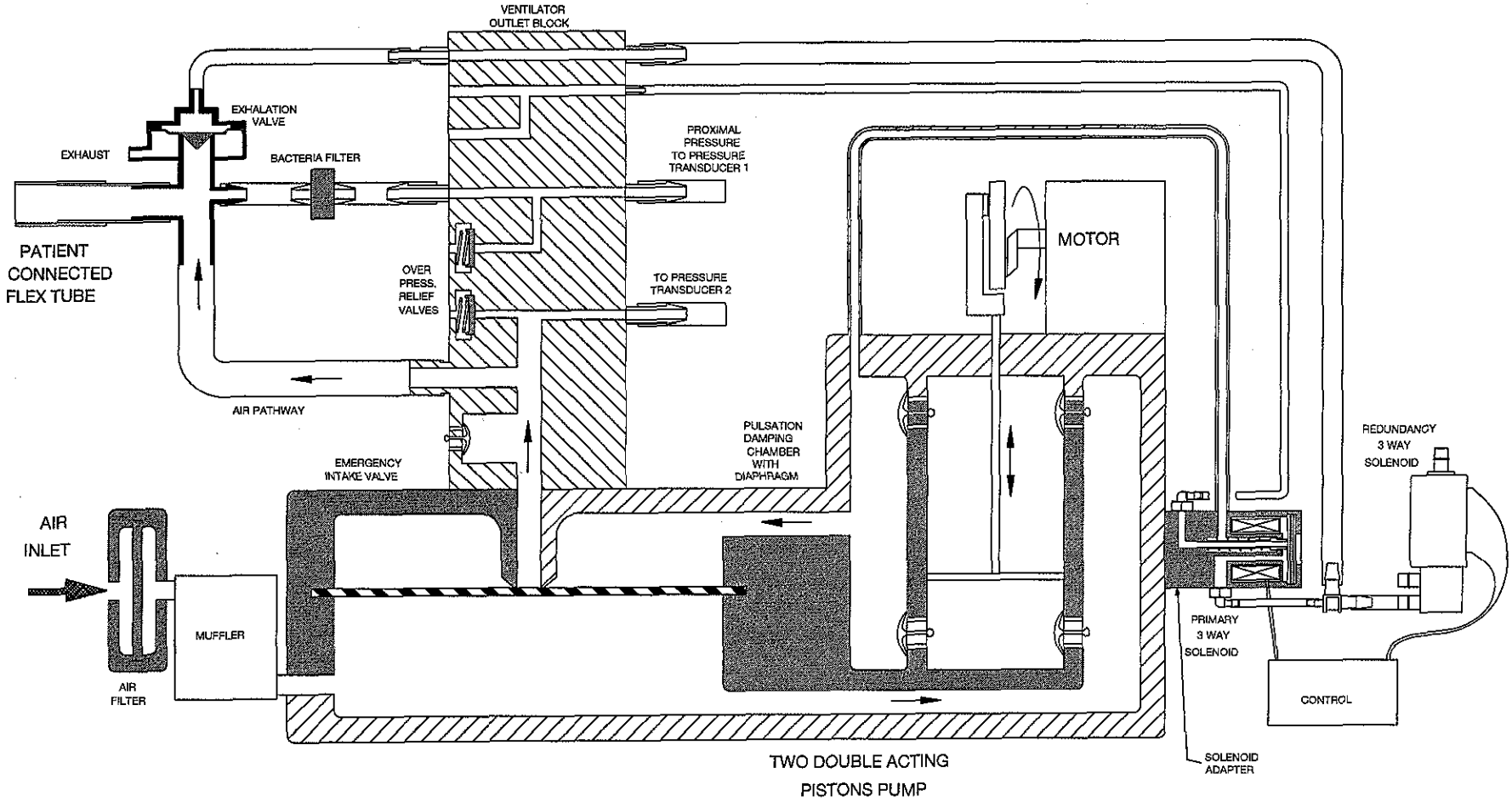


Figure 9-8
Pneumatic Schematic

SERHT50 B0601

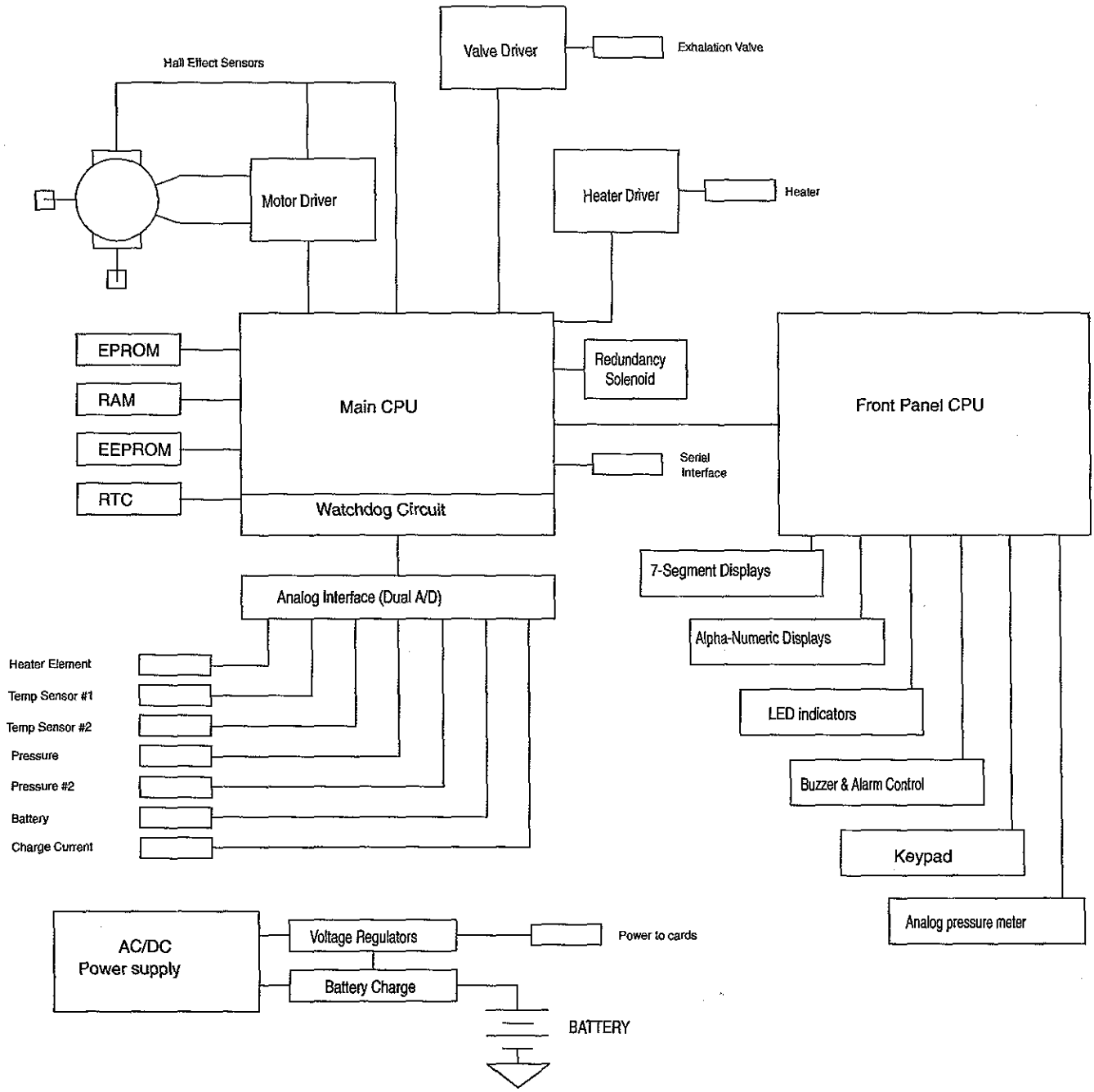


Figure 9-9
Electrical System Overview

Drawing Reference List

Item No.	Description of Part	Part Number
2	Battery Case Cover	V11-14000-07
3	Battery Cable w/ Fuse	V11-11200-69
4, 6, 18, 28, 31, 35, 46, 52, 53, 61, 63, 67	Torx Screw, 6-32 x 1/4"	G23-00001-23
7	Battery	G19-00001-29
8	Air Inlet Filter Cover Assembly	V11-35000-63
9	Air Inlet Filter Cover O-ring	V11-36000-26
11	Air Inlet Filter (5 pk)	HT460300
12	Silicone Tube, Muffler	V11-32000-06
13	Muffler Assembly.	V11-33000-67
19	Knob, Humidifier Bracket	V12-22000-03
20	Cap Screw, 1/4" x 1-1/4"	G23-00021-23
21	Humidifier Bracket	V12-21000-03
22	Humid. Bottle, Upper	HT460910
23	Absorbent Paper (10 pk)	HT460960
24	Humid. Bottle, Lower	HT460920
25	Humid. Heat Sink	HT460930
26	Humid. Heater Assembly	V12-10000-60
27	Torx Screw, K35 x 10	G23-00006-23
29	Pump Diaphragm	V11-21700-06
30	Outlet Assembly., HT50-H	V10-24000-63
30	Outlet Assembly, HT50-T, HT50-H1	V11-24000-63
32	Pump (manifold) Assembly	V11-21000-60
34	Rubber Foot	G01-00001-67
38	Silicone Tubing Kit, Solenoid	V11-26000-60
39,40	Silicone Tubes, Transducer	V11-28000-06
42	Plug, Alarm Comm. Port	V11-29000-06
43	Temp. Probe Conn. Kit	V11-25000-60
45	Plug, Temp. Probe (HT50-T, -H1)	V11-27100-06
47	Power Supply Assembly	V11-31001-65
49	Cap Screw, 6/32" x 1/4"	G23-00031-23
50	Main PCB Assembly.	V11-61001-05
58, 65	Pan Head Screw, 4-40 x 1/4"	G23-00014-23
60	Flat Cable Assembly, Panel to Main PCB	V11-78000-69
66	Panel PCB Assembly	V11-71000-65
68	Front Panel Assembly, Eng. (no bezel)	V11-72000-63
71	Cover Assembly, Control Panel	V11-75000-67
72	Bezel Assembly	V11-77000-03
74	Alarm Assembly	V11-37000-69
76	Phillips Screw, 8-32 x 1/4"	G23-00013-23
	EXCHANGE PARTS	
74	Alarm Assembly, Exchange	V11-37000-69x
29	Pump Assembly, Exchange	V11-21000-60X
47	Power Supply Assembly, Exchange	V11-31100-65X
66	Panel PCB, Exchange	V11-71000-65X
50	Main PCB, Exchange	V11-61002-05X
43	Temp.Probe Input, Exchange	V11-25000-60X

10. REPACKAGING AND SHIPPING INSTRUCTIONS

Introduction 10-1
RGA (Return Goods Authorization) 10-1
Packaging: Complete Unit. 10-1
Packaging: Parts or Accessories 10-2

INTRODUCTION

This section will help ensure that returns are properly packaged, the risk of shipping damage is reduced and that the return is delivered to the correct department within Newport Medical Instruments. Please follow the instructions below. This will help you avoid any inconveniences or delays when returning merchandise.

RGA (RETURN GOODS AUTHORIZATION)

1. All returns to Newport Medical Instruments must have an RGA number assigned. Returning goods without an RGA number could delay service, replacement or credit issues.

2. To obtain an RGA number please call Newport Medical Instruments during business hours (800.451.3111 or 949.642.3910) or email TechSupport@NewportNMI.com. Dial extension 500 for any parts or products being returned to the Technical Service Department for maintenance, warranty or non-warranty repairs. Dial extension 282 (Customer Service Department) or email Customers@NewportNMI.com for all other returns or FAX your request to 949.548.3091, attention Customer Service.

PACKAGING: COMPLETE UNIT

1. When returning an HT50 Ventilator, the original box and packaging must be used. If you do not have the original box and packaging, please contact the Technical Service Department at extension 500 to have one shipped to you.

2. Remove all accessories from the ventilator.

3. Do not ship any accessories unless they are requested by a Technician.

4. Once the ventilator is sealed in the box, write the RGA number on the shipping label.

5. When addressing the shipping label, use the "Courier Deliveries" address: Newport Medical Instruments, 760 West 16th Street, Building B, Costa Mesa, California, USA 92627.

PACKAGING: PARTS OR ACCESSORIES

1. When returning any parts or accessories, please package them in a large enough box that the parts or accessories can be wrapped in a sufficient amount of packaging materials.

2. Once the parts or accessories are sealed in the box, write the RGA number on the shipping label.

3. When addressing the shipping label, use the "Courier Deliveries" address: Newport Medical Instruments, 760 West 16th Street, Building B, Costa Mesa, California, USA 92627.

NOTE: When calling Newport Medical Instruments regarding a return, please have your assigned RGA number available to avoid any delays in answering your inquiry.

APPENDIX A:
PARTS AND ACCESSORIES

Parts and Accessories. A-1

HT50 Ventilator Accessories

For more details see your NEWPORT representative or contact NEWPORT Customer Service Department.

Part Number	Description	Quantity
HUMIDIFIER ACCESSORIES		
HT460910	Humidifier Bottle – upper	1
HT460920	Humidifier Bottle – lower	1
HT460930	Humidifier – heat sink	1
HT460940	Humidifier – airway temperature probe	1
HT460950	Humidifier – hose connection (6 in)	1
HT460960	Humidifier – absorbent paper	10/ea
AIR/OXYGEN MIXER		
HT460700	Air/oxygen mixer – DISS 1240	1
HT600044	Oxygen blending bag kit (1L)	1
PATIENT BREATHING CIRCUITS		
HT600050	Patient breathing circuit – disposable with prox line, exh. valve	10/ea
HT600047	Patient breathing circuit – permanent with prox line, water trap, exh. valve	1
HT600048	Patient breathing circuit – permanent with prox line, water trap	1
HT600045	Patient breathing circuit – permanent with prox line, exh. valve	1
HT600049	Patient breathing circuit – permanent with prox line	1
HT600039	Exhalation valve	1
MOUNTING ACCESSORIES		
HT460230	Compact stand assembly with support arm and breathing circuit hanger	1
HT460200	Bed bracket (headboard)	1
MISCELLANEOUS ACCESSORIES		
HT460300	Air inlet particle filter (disposable)	5/ea
LNG600P	Adult test lung (500 mL)	1
PWR290P	Electrical power cord / A.C.	1
HT460400	Power cord ferrite	1
HT460085	Automobile 12 V accessory power cord	1
OPRHT50-1	Operating manual for HT50	1
SERHT50	Service manual for HT50	1
HT6004701	Prox inline filters (disposable)	5/ea
RP50	Parabolic Resistor (test device)	1
V15-23000-07	Breathing Circuit Hanger	1
V15-22000-07 N	Support Arm Plug	1
V15-21000-03 N	Support Arm Rod	1
V15-12000-03 N	Compact Stand Thumbscrew	1
V15-11200-03 N	Compact Stand Tray	1

Contact NEWPORT or your local NEWPORT representative for pricing and availability on all accessories and parts listed.

Service Parts List

Part Number	Description of Part
V11-14000-07	Battery Case Cover
V11-11200-69	Battery Cable w/ Fuse
G23-00001-23	Torx Screw, 6-32 x 1/4"
G19-00001-29	Battery
V11-35000-63	Air Inlet Filter Cover Assembly.
V11-36000-26	Air Inlet Filter Cover O-ring
HT460300	Air Inlet Filter (5 pk)
V11-32000-06	Silicone Tube, Muffler
V11-33000-67	Muffler Assembly.
V12-22000-03	Knob, Humidifier Bracket
G23-00021-23	Cap Screw, 1/4" x 1-1/4"
V12-21000-03	Humidifier Bracket
HT460910	Humid. Bottle, Upper
HT460960	Absorbent Paper (10 pk)
HT460920	Humid. Bottle, Lower
HT460930	Humid. Heat Sink
V12-10000-60	Humid. Heater Assembly.
G23-00006-23	Torx Screw, K35 x 10
V11-21700-06	Pump Diaphragm
V10-24000-63	Outlet Assembly, HT50-H
V11-24000-63	Outlet Assembly, HT50-T, HT50-H1
V11-21000-60	Pump (manifold) Assembly.
G01-00001-67	Rubber Foot
V11-26000-60	Silicone Tubing Kit, Solenoid
V11-28000-06	Silicone Tubes, Transducer
V11-29000-06	Plug, Alarm Comm. Port
V11-25000-60	Temp. Probe Conn. Kit
V11-27100-06	Plug, Temp. Probe (HT50-T, -H1)
V11-31001-65	Power Supply Assembly.
G23-00031-23	Cap Screw, 6/32" x 1/4"
V11-61001-05	Main PCB Assembly.
G23-00014-23	Pan Head Screw, 4-40 x 1/4"
V11-78000-69	Flat Cable Assembly, Panel to Main PCB
V11-71000-65	Panel PCB Assembly
V11-72000-63	Front Panel Assembly, Eng. (no bezel)
V11-75000-67	Cover Assembly, Control Panel
V11-77000-03	Bezel Assembly
V11-37000-69	Alarm Assembly
G23-00013-23	Phillips Screw, 8-32 x 1/4"
V11-24700-67	Emergency Intake Valve Assembly
R26-00204-26	Silicone Tube Assembly, Sol. to Outlet

Exchange Parts

Part Number	Description of Part
V11-37000-69X	Alarm Assembly, Exchange
V11-21000-60X	Pump Assembly, Exchange
V11-31100-65X	Power Supply Assembly, Exchange
V11-71000-65X	Panel PCB, Exchange
V11-61002-05X	Main PCB, Exchange
V11-25000-60X	Temp.Probe Input, Exchange

Conversion Adapters

(allows mating between original connector board and new style connectors)

Part Number	Description of Part
G10-0001-29	Adapter (new temp. probe to old MB)
G10-0002-29	Adapter (old temp.probe to new MB)
G10-0003-29	Adapter (new solenoid/buzzer to old MB/PB)
G10-0004-29	Adapter (old solenoid/buzzer to new MB/PB)
NOTE: Appropriate adapter included with exchange parts assemblies.	

Miscellaneous

↑ – PEEP Too Low 3-25
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